SOME TELEGRAPH FIGURES.

The Number of Operators—Nine In 1902 There Were 1,318,-States-Four Different Systems of Operating Wires—The Tele graph the Outgrowth of An-cient Methods of Signaling-Early Lines in This Country-Telegraphy a Handleraft.

Washington Correspondence Charlotte Ob

There are 55,852 telegraph operators in the United States, 48,628 men and 7,229 women according to the last census. Figuresvary as to the number of these out on a strike just at present, according as you get your informa tion from the managers of the tele graph companies or from the officers of the Telegraphers' Un-

Of the number of persons giv ing their occupation as "telegraph operators" 30,336 are railroad telegraphers. The remaining 15,516 are engaged as commercial telegraph operators, including those employed at the regular telegraph offices of the Western Union and the Postal Companies, those working on leased wires and newspapers and various business concerns. At least 98 per cent of all the telegraph operators in the United States are in the employ of one of the two great telegraph companies, leaving about 2 per cent to work on leased wires. Some of the operators on leased wires are under contract with one of thetwo telegraph companies, their services being leased with the

In 1880 there were 77 systems of telegraph in operation throughout the United States, this number including six operated by the Western Telegraph Company under different names. In 1902 the number of systems was reduced to 25, consolidation and amalgamation bringing about the reduction. In 1880 there were 291,213 miles of wire, while in 1902 the number of miles had been increased to 1,318,350, which includes the number of miles of wire operated by the Western Union Telegraph Company outside of the United States, but does not include the 16,277 nautical miles of cable operated by the submarine cable system. In 1880 according to a monograph issued by the Census Bureau, under the subject of "Telephone and Telegraphs," there was paid in salaries and wages \$4,886,128, while in 1902, the year in which the special report was made, there were paid in salaries and wages \$15,039,673.

FINANCES OF THE COMPANIES.

The capital stock of the companies reported in 1902 was \$162-. 949,525 with a total revenue of \$40,930,775, with total assets of \$195,508,775. Those companies paid \$6,256,693 in dividends and \$1,950,282 in interest on bonds. In all these respects as well as in the number of messages, the telegraph was surpassed by its younger rival, the telephone; and, while the telegraph has intrinsically grown rapidly and has in itself the elements of steady increase, the statistics contained in the special report from the Census Bureau gives every warrant for the belief that each year must see a wider disparity between these two vital means of

Rising from the Grave.

A prominent manufacturer, Wm A. Fertwell, of Lucama, N. C., relates a most remarkable experience. He says: "After taking less than three bottles of Electric Bitters, I feel like one rising from the grave. My trouble is Bright's disease, in the Diabetes stage. I fully believe line that extended from the rooms Electric Bitters will cure me permanently, for it has already stopped the liver and bladder complications which have troubled me for years." Guaranteed by all druggists. Price only 50c.

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intercommunication. course, being in the time it takes separated points.

separate holdings due to the numerous consolidations which have taken place of corporations previously competing or not before under one ownership, has been accompanied by a very great increase in the magnitude of equipment and business. In this connection it is interesting to know that the number of messages received over the million and upwards of miles of telegraph wire were 91,655,287 in 1902, as against 31,703,181 in 1880. In 1880 the number of messages was reported for only 54 companies; of the 23 other companies reported only "receipts from messages," five kept no record and one had had no message business. The average rate for each message in 1902, after deducting the number of cable messages and receipts therefrom was 31 cents, as compared with 43 cents in 1880. The number of telegraph offices in 1902 was 27.377, an increase of 14,867, or 118.8 per cent. over 1880. Of the total number in 1902 20,309 were in railway sta-

There are four different methhere or in Europe.

tions.

STORY OF THE TELEGRAPH. bon fires on mountain peaks by present time. night, and other devices, some of in their nature as they appear to operation of a lever key, the de have been certain in their results. pression and raising of which It was in 1632 that Galileo refer. opening and closing the circuit red to an occult art by means of causes great series of longer and needles, though widely separated pass over the wire, thus making could be made to exchange sig- corresponding clicks with the nals for purposes of communi sounder, or imprinting themof a tradition or superstition translate themselves into letters which descended from the an and numerals. Notwithstanding heart and died in a few seconds. cients. In 1727 Stephen Gray that three quarters of a century an excited glass tube situated at ment has occurred since the inin length suspended in the air by graphic system of the world is interesting article descriptive of the James town Exposition and will prove very good silk threads and thus effected still based primarily and essen-

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This has of the Royal Society of London been particularly emphasized over the house tops and used the during the strike now on, the earth as the return circuit. A long distance telephone being year later our own Benjamin craft. called into service and accom- Franklin sent crude signals plishing the same results as the across the Schuylkill river at telegraph, the difference, of Philadelphia. In 1774 an actua working telegraphic line was esto secure connection between tablished at Geneva, Switzerland, by Lesage, who had twenty-four The striking decrease between wires insulated in glass tubes, 1880 and 1903 in the number of buried in the earth, and employed an ordinary frictional machine to deliver a charge to the wires. This was the dawn of the telegraph of today, with our own Morse as the inventive genius.

MORSES INVENTION. In 1837 Morse filed his caveat in the United States Patent office, and six months later applied for a patent, which he obtained in 1840. In 1837 Morse made a report to the Secretary of the Treasury of the United States with regard to his telegraph system, and in the following year it was exhibited before the President of the United States and his Cabinet. He then attempted to secure aid from Congress for the construction of a line about forty miles in length between Washington and Baltimore, and finally a bill was passed by a small majority appropriating \$30, 000 for this purpose. This line was duly constructed and on May 24th, 1844. Miss Ellsworth, daughter of the United States Commissioner of Patents, sent over it the memorable message, "What hath Ged wrought?" A

short time afterwards the national Democratic convention, ods of operating telegraph wirest sitting in Baltimore, nominated the single or Morse system, by Polk for President, and the imwhich only one message can be mediate transmission of the news sent by key at a time; the du- by telegraph to Washington not plex system, by which two mes- only caused a sensation but helpsages can be sent simultaneous- ed the young invention in many ly; and printing and automatic ways. During the session of systems, which make possible a 1844-45 Congress made an approhigher rate of speed than can be priation of about \$8,000 to keep obtained by hand. By one of the the system in operation during latter printing systems the West- the year and placed it under the ern Union Telegraph Company supervision of the Postmaster has transmitted over 1,500,000 General. A tariff of one cent for messages, but at the same time every four characters was instithey do not gain ground either tuted and Messrs. Alfred Vail and J. H. Rogers, who were associated with Professor Morse in From the earliest dawn of civi- the building and construction of lization there has been an insist- the telegraph, were appointed ent effort to develop and perfect operators under Professor means of communication for the Morse's superintendence. Afexchange of intelligence. Among ter the expenditure of the amount some of the most barbaric and appropriated by Congress the primitive races ingenious meth- government declined to go any ods for signaling have long been further in its assistance, and alknown, and in the earliest record so refused to purchase the Morse of the leading nations of antiqui- telegraph for \$100,000, the price ty are to be found frequent notes at which it was offered by the of the speed with which dispatch. inventor and his associates. es could be sent, signals exchang. Thus contrary to the practice ed and warnings given over great prevailing in Europe the teleexpanses of country by various graph reverted to private hands, to a house of ill fame and the of noises, columns of smoke by day, and has so remained up to the ficer was summoned and shot the

The Morse system has always which today remain as obscure been based essentially upon the which sympathetic magnetic shorter electrical impulses to cating intelligence, but this, it selves on tape, in dots and dashes, is believed, was merely the echo the nature and sequence of which made an electric discharge from of tremendous electrical developone end of the line to pass over a stitution of the first Morse telecircuit some seven hundred feet graph system. The whole telethe motion of a pith bell electro. tially upon the skill of the hand: scope located at the other end. that is to say, upon manual oper-Twenty years later Professor ation as distinguished from me-

Watson constructed a telegraph STATE OF ORIO, CITY OF TOLEBO,

LUCAS COUNTY.

Frank J. Cheney makes cath that he is senter partner of the firm of F. J. Cheney & Co., doing business in the City of Toledo County and state aforesaid, and that said firm will pay the sum of ONE HUNDRED DOLLARS for each and every case of Catarrh that cannot be cured by the use of Hall's Catarrh Cure.

Sworn to before me and subscribed in my presence, this 6th day of December. A. D. 1888.

[SEAL]

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words, telegraphy remains as it was in the beginning, a handi-

This is the story of the telegraph. To the thousands who are out of their offices because of wrongs, either real or fancied it is well known, but to the mil lions who use the telegraph and who are greatly inconvenience by the strike of the telegraphers which involves every section of the country and every business it will be a story full of human interest and will show not only the marvelous development, but still more marvelous possibilities when the companies and their employes meet together in amity and cordial relationship.

ZACH MCGHEE That Standard Oil Fine.

Memphis News-Scimitar. They haven't yet determined how many trains it will take tocarry the \$29,240,000 from the Standard Oil's Wall Street vaults to the government's Treasury unless paid in silver. In such event there would be required 177 flat cars with a capacity of 33,000

It would build five first-class ttleships or a new subway for New York City.

pounds.

It would yield a perpetual income of \$ 4,027 a day.

Itwould make 914 tons of silver dollars, requiring 304 teams to transport it.

It would build 2,924 homes at 10,000 each. It is the income for one year

at 4 per cent. on \$731,000,000. It is about 2 per cent. of the national debt of 1906.

It is 35 cents for every man, woman and child in the whole

It would take 48,730 street laborers one year to work out amount.

It is the annual revenue of Mexico.

It is nearly one-half the capital of the Bank of England.

It is nearly one-half the number of silver dollars in circu-It is twenty-nine times the

capital stock of the Standard Oil Company of Indiana, the corporation fined.

It is 4,783 times the annual salary of Judge Landis, who imposed the fine.

O. W. Robertson, an adopted son of W. A. Robertson, of Charlotte, was shot through the head and instantly killed last Friday night in Asheville by Policeman J. B. Allison Robertson was a fireman of the Southern Ry. He was trying to gain admission man, claiming that he resisted

Will Ziglar, a prominent citizen who lived near Madison, shot and killed himself on the morning of the 24th. He leaves a wife and five children. No cause is assigned for the deed.

Mrs. Effic Ingle, of Asheville. while attempting to whip her 12year-old son last Friday, was struck by the boy and, falling to the floor, ruptured a valve of the

An Attractive Booklet.

The Industrial Department of the Sea board Air Line Railway has just issued a very attractive Magazine devoted to the Industrial and Agricultural Development of the South. This issue contains a very reading to those who contemplate attend-ing. It contains handsome views of all the Government and State Buildings, Hampton Roads, Birds Eye View of the Grounds, Geographical and Historical maps of Norfolk-Portsmouth and the Jomestown Exposition, and that portion of Virginia in the Vicinity of Jamestown. Copies of this magazine can be secured by addressing C. H. Gattis, Traveling Passenger Agent, Raleigh, N. C.

\$5.25 Round Trip to Norfolk, Va. The Seaboard now sells coach excursion tickets for all trains on Tuesdays and Fridays to Portsmouth for \$5.25, limited seven days; season tickets, \$12.50; 60 days,

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